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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,596	10/02/2003	William R. Eisenstadt	5853-268	8230
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AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			EXAMINER	
			PARRIES, DRU M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/677,596	Applicant(s) EISENSTADT, WILLIAM R.
	Examiner DRU M. PARRIES	Art Unit 2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on **28 February 2008**.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) **1-14,17-27 and 30** is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) **1-14,17-27 and 30** is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/1449)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed February 28, 2008 have been fully considered but they are not persuasive. Regarding claims 1 and 17, the Examiner believes that the Applicant has misunderstood the Examiner's interpretation of the references. The Examiner states that Nishigaki teaches processing circuitry (211) which receives a produced DC supply voltage (the 5V signal out of 34) and a time-varying data input signal (V_{CC}). Also, to clarify, the modified time-varying output data signal *is* the RMTON signal that is output from the processing circuitry. The RMTON signal is the activation signal and Dias teaches an activation signal being a 5V pulse, so Nishigaki's RMTON signal is modified into a 5V pulse, which is scaled to a voltage level of the produced DC supply voltage received by the processing circuitry (the 5V signal out of 34).

2. Also, regarding the newly added limitations, if the references teach a system that performs a certain function, then the same references teach "the structure for" performing those same functions. For example, if a reference teaches converting an AC signal to a DC signal, then that same reference has a structure for converting an AC signal to a DC signal.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 3, 5-7, 9-11, 17, 19, 21-23, and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishigaki (6,463,396), Dias et al. (4,510,584) and Wei et al. (2003/0063439). Regarding claim 1, Nishigaki teaches a DC/DC converter (34) receiving a single DC supply voltage (right side input of 34) and producing a plurality of output DC supply voltages (P1). He also teaches processing circuitry (211) receiving a produced DC supply voltage (P1 - 5V) and an analog time-varying data input signal (V_{CC}), and the processing circuitry outputs a frequency modified time-varying data signal (RMTON, which is an activation signal for the second power supply, PS2) and the structure for doing so. He goes on to teach the processing circuitry comprising analog (via SW1-3) and digital circuitry (Col. 1, lines 22-27). He goes on to teach that the frequency of the time varying signal is programmable (the user determines/programs the frequency of VCC by controlling when the computer is docked to and removed from the docking station). He also teaches the processing circuitry (211) comprising an input/output buffer (117).

Regarding claim 17, Nishigaki teaches a plurality of circuits (212, 213, and PS2) disposed on a board (2), collectively requiring a plurality of different DC supply voltages (5V for 212; 12V for 213) and a plurality of different time-varying data signals (CNT/DIR; RMTON; data to be stored). He also teaches a power supply circuit (PS1 and 211) disposed on said board and coupled to the plurality of circuits to provide the required voltage levels and time-varying signals at the respective inputs of the circuits. He goes on to teach the power supply circuit comprising a DC/DC converter (34), and processing circuitry (211) that receives a produced DC voltage from the converter and a time-varying data input signal (V_{CC}) and produces one of the required time-varying output signals (RMTON) and the structure for doing so. Nishigaki fails to

explicitly teach the type of signal used to send the signal, RMTON. Dias teaches an activation signal being a 5V pulse (Col. 4, lines 19-21). It would have been obvious to one of ordinary skill in the art at the time of the invention to substitute in Dias' activation signal into Nishigaki's invention for RMTON, since Nishigaki was silent as to the type of signal that it is, and Dias teaches a known type of activation signal. Nishigaki also fails to explicitly teach all the output supply voltages being greater than the supply voltage. It would have been obvious to one of ordinary skill in the art at the time of the invention to have all the output supply voltages being greater than the supply voltage since it is just a matter of design choice and would be obvious if the supply voltage was extremely low and the necessary voltages to power each integrated circuit was greater than the supply voltage. Nishigaki also fails to explicitly teach the different elements in the invention being integrated circuits. Wei teaches a computer system being made up of a plurality of integrated circuits ([0002]). It would have been obvious to one of ordinary skill in the art at the time of the invention to have all of the different elements of Nishigaki's computer system implemented in various groups as integrated circuits, since it would minimize the size of the invention, in particular the docking station, and selecting the groups of elements to implement into ICs would be a matter of design choice.

5. Claims 2 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishigaki (6,463,396), Dias et al. (4,510,584), and Wei et al. (2003/0063439) as applied to claims 1 and 17 above, and further in view of Hutchison (6,323,781). Nishigaki, Dias, and Wei teach an integrated circuit as described above. Nishigaki also teaches his time-varying input signal (VCC) being a notification signal regarding the state of the system. Nishigaki fails to teach the time-varying input signal comprising an RF signal. Hutchison teaches an RF

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notification signal being sent to an operator regarding the state of the system (Col. 11, lines 59-67). It would have been an obvious matter of design choice to have the time-varying input signal of Nishigaki be an RF signal, since applicant has not disclosed that the signal being an RF signal solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with either an analog or RF signal as the notification signal to the processing circuitry of Nishigaki. Also, doing so would allow for wireless communication between the controller and the power source (PS2) of Nishigaki's invention.

6. Claims 4 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishigaki (6,463,396), Dias et al. (4,510,584) and Wei et al. (2003/0063439) as applied to claims 1 and 17 above, and further in view of Nork et al. (6,411,531) and Roohparvar et al. (6,633,494). Nishigaki, Dias, and Wei teach an integrated circuit as described above. Nishigaki fails to teach the inner workings of the DC/DC converter. Nork teaches a DC/DC converter receiving opposite phase clock signals (V_{CLK} & V_{CLKB} via oscillator 25; Fig. 3A&B). Nork fails to teach the voltage on those (HIGH/LOW) signals. Roohparvar teaches a clock with a HIGH signal that is representative of the supply voltage, and a LOW signal that is representative of ground (Col. 6, lines 26-28). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Roohparvar's HIGH and LOW voltage values into Nork's oscillator, and implement Nork's DC/DC converter into Nishigaki's invention since Nork and Nishigaki were silent on those specific characteristics and Roohparvar and Nork, respectively, teach an instance that is known in the art.

7. Claims 8 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishigaki (6,463,396), Dias et al. (4,510,584) and Wei et al. (2003/0063439) as applied to claims

1 and 17 above, and further in view of Goodfellow et al. (2002/0144163). Nishigaki, Dias, and Wei teach an integrated circuit as described above. Nishigaki also teaches his time-varying input signal (VCC) being a notification signal regarding the state of the system. Nishigaki fails to teach the time-varying input signal comprising a digital signal. Goodfellow teaches a digital notification signal being sent to the controller regarding the state of the system ([0048]). It would have been an obvious matter of design choice to have the time-varying input signal of Nishigaki be a digital signal, since applicant has not disclosed that the signal being digital solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with either an analog or digital signal as the notification signal to the processing circuitry of Nishigaki.

8. Claims 12-14 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishigaki (6,463,396), Dias et al. (4,510,584) and Wei et al. (2003/0063439) as applied to claims 1 and 17 above, and further in view of Maksimovic et al. ("Switched-Capacitor DC-DC Converters for Low-Power On-Chip Applications"). Nishigaki, Dias, and Wei teach a circuit as described above. They fail to explicitly teach the type of converter used. Maksimovic teaches a switched capacitor based DC/DC converter (Abstract), which provides passive, peripheral elements for providing programmability to the output voltage of the DC/DC converter. It would have been obvious to one of ordinary skill in the art at the time of the invention to use Maksimovic's switched capacitor based DC/DC converter as the converter in Nishigaki's invention because it allows for greater efficiency in the circuit and it is known to work in the art and Nishigaki was silent as to the type of converter used.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dru M. Parries whose telephone number is (571) 272-8542. The examiner can normally be reached on Monday -Thursday from 9:00am to 6:00pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry, can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael J Sherry/
Supervisory Patent Examiner, Art Unit 2836

DMP
4-30-2008